**Heat and Temperature Review – Part 2 Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. What do you call an object or material that can transfer its energy to other objects? Give an example…
2. What is radiation?
3. How does radiation travel through space?
4. A) What colours absorb energy the best?

B) What colours absorb energy the worst?

1. Draw a series of pictures to show Thermal conduction (how heat is conducted through a solid)
2. What types of materials are good conductors?
3. What materials make good insulators?
4. Gordon brought a lava lamp to show us convection current. Describe how a convection current works.
5. Why do fluids and gasses at different temperatures rise or sink?
6. If 100ml of hot water (50 degrees) is mixed with 100 ml of cold water (10 degrees)
7. Predict what will happen to the temperature of the water after it is well stirred.
8. In which direction was the energy transferred?
9. What happened to the temperature of the hot water?
10. What happened to the temperature of the cold water?
11. If you left the water mixture in a glass beaker for 24 hours in our classroom, what will happen to the temperature of the water?